

## CRF Errors Corrected by the STIC Systems Branch

PCT

Serial Number: 09/807 499CRF Processed Date: \_\_\_\_\_  
Edited by: \_\_\_\_\_  
Verified by: \_\_\_\_\_ (STIC staff)

Changed a file from non-ASCII to ASCII

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

Edited a format error in the Current Application Data section, specifically: **ENTERED**

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was  the prior application data; or  other \_\_\_\_\_

Added the mandatory heading and subheadings for "Current Application Data".

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included:

Deleted extra, invalid, headings used by an applicant, specifically:

Deleted:  non-ASCII "garbage" at the beginning/end of files;  secretary initials/filename at end of file;  page numbers throughout text;  other invalid text, such as \_\_\_\_\_

Inserted mandatory headings, specifically:

Corrected an obvious error in the response, specifically:

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically:

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected:

Other:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

PCT

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/807,499

DATE: 05/11/2001  
TIME: 13:34:33

Input Set : A:\Cpg.pto  
Output Set: N:\CRF3\05112001\I807499.raw

3 <110> APPLICANT: Rosenmund, Christian  
4 Russo, Sebastian  
6 <120> TITLE OF INVENTION: Non-desensitizing AMPA-Receptors  
8 <130> FILE REFERENCE: D2234PCT  
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/807,499  
C--> 11 <141> CURRENT FILING DATE: 2001-04-13  
13 <150> PRIOR APPLICATION NUMBER: DE 198 47 064.9  
14 <151> PRIOR FILING DATE: 1998-10-13  
16 <160> NUMBER OF SEQ ID NOS: 22  
18 <170> SOFTWARE: PatentIn Ver. 2.1  
20 <210> SEQ ID NO: 1  
21 <211> LENGTH: 907  
22 <212> TYPE: PRT  
23 <213> ORGANISM: Rattus norvegicus  
25 <400> SEQUENCE: 1  
26 Met Pro Tyr Ile Phe Ala Phe Phe Cys Thr Gly Phe Leu Gly Ala Val  
27 1 5 10 15  
29 Val Gly Ala Asn Phe Pro Asn Asn Ile Gln Ile Gly Gly Leu Phe Pro  
30 20 25 30  
32 Asn Gln Gln Ser Gln Glu His Ala Ala Phe Arg Phe Ala Leu Ser Gln  
33 35 40 45  
35 Leu Thr Glu Pro Pro Lys Leu Leu Pro Gln Ile Asp Ile Val Asn Ile  
36 50 55 60  
38 Ser Asp Ser Phe Glu Met Thr Tyr Arg Phe Cys Ser Gln Phe Ser Lys  
39 65 70 75 80  
41 Gly Val Tyr Ala Ile Phe Gly Phe Tyr Glu Arg Arg Thr Val Asn Met  
42 85 90 95  
44 Leu Thr Ser Phe Cys Gly Ala Leu His Val Cys Phe Ile Thr Pro Ser  
45 100 105 110  
47 Phe Pro Val Asp Thr Ser Asn Gln Phe Val Leu Gln Leu Arg Pro Glu  
48 115 120 125  
50 Leu Gln Glu Ala Leu Ile Ser Ile Ile Asp His Tyr Lys Trp Gln Thr  
51 130 135 140  
53 Phe Val Tyr Ile Tyr Asp Ala Asp Arg Gly Leu Ser Val Leu Gln Arg  
54 145 150 155 160  
56 Val Leu Asp Thr Ala Ala Glu Lys Asn Trp Gln Val Thr Ala Val Asn  
57 165 170 175  
59 Ile Leu Thr Thr Glu Glu Gly Tyr Arg Met Leu Phe Gln Asp Leu  
60 180 185 190  
62 Glu Lys Lys Lys Glu Arg Leu Val Val Val Asp Cys Glu Ser Glu Arg  
63 195 200 205  
65 Leu Asn Ala Ile Leu Gly Gln Ile Val Lys Leu Glu Lys Asn Gly Ile  
66 210 215 220  
68 Gly Tyr His Tyr Ile Leu Ala Asn Leu Gly Phe Met Asp Ile Asp Leu  
69 225 230 235 240  
71 Asn Lys Phe Lys Glu Ser Gly Ala Asn Val Thr Gly Phe Gln Leu Val  
72 245 250 255

See P. 5

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Input Set : A:\Cpg.pto  
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74 Asn Tyr Thr Asp Thr Ile Pro Ala Arg Ile Met Gln Gln Trp Arg Thr  
75 260 265 270  
77 Ser Asp Ser Arg Asp His Thr Arg Val Asp Trp Lys Arg Pro Lys Tyr  
78 275 280 285  
80 Thr Ser Ala Leu Thr Tyr Asp Gly Val Lys Val Met Ala Glu Ala Phe  
81 290 295 300  
83 Gln Ser Leu Arg Arg Gln Arg Ile Asp Ile Ser Arg Arg Gly Asn Ala  
84 305 310 315 320  
86 Gly Asp Cys Leu Ala Asn Pro Ala Val Pro Trp Gly Gln Gly Ile Asp  
87 325 330 335  
89 Ile Gln Arg Ala Leu Gln Gln Val Arg Phe Glu Gly Leu Thr Gly Asn  
90 340 345 350  
92 Val Gln Phe Asn Glu Lys Gly Arg Arg Thr Asn Tyr Thr Leu His Val  
93 355 360 365  
95 Ile Glu Met Lys His Asp Gly Ile Arg Lys Ile Gly Tyr Trp Asn Glu  
96 370 375 380  
98 Asp Asp Lys Phe Val Pro Ala Ala Thr Asp Ala Gln Ala Gly Gly Asp  
99 385 390 395 400  
101 Asn Ser Ser Val Gln Asn Arg Thr Tyr Ile Val Thr Thr Ile Leu Glu  
102 405 410 415  
104 Asp Pro Tyr Val Met Leu Lys Lys Asn Ala Asn Gln Phe Glu Gly Asn  
105 420 425 430  
107 Asp Arg Tyr Glu Gly Tyr Cys Val Glu Leu Ala Ala Glu Ile Ala Lys  
108 435 440 445  
110 His Val Gly Tyr Ser Tyr Arg Leu Glu Ile Val Ser Asp Gly Lys Tyr  
111 450 455 460  
113 Gly Ala Arg Asp Pro Asp Thr Lys Ala Trp Asn Gly Met Val Gly Glu  
114 465 470 475 480  
116 Leu Val Tyr Gly Arg Ala Asp Val Ala Val Ala Pro Leu Thr Ile Thr  
117 485 490 495  
119 Leu Val Arg Glu Glu Val Ile Asp Phe Ser Lys Pro Phe Met Ser Leu  
120 500 505 510  
122 Gly Ile Ser Ile Met Ile Lys Lys Pro Gln Lys Ser Lys Pro Gly Val  
123 515 520 525  
125 Phe Ser Phe Leu Asp Pro Leu Ala Tyr Glu Ile Trp Met Cys Ile Val  
126 530 535 540  
128 Phe Ala Tyr Ile Gly Val Ser Val Val Leu Phe Leu Val Ser Arg Phe  
129 545 550 555 560  
131 Ser Pro Tyr Glu Trp His Ser Glu Glu Phe Glu Glu Gly Arg Asp Gln  
132 565 570 575  
134 Thr Thr Ser Asp Gln Ser Asn Glu Phe Gly Ile Phe Asn Ser Leu Trp  
135 580 585 590  
137 Phe Ser Leu Gly Ala Phe Met Gln Gln Gly Cys Asp Ile Ser Pro Arg  
138 595 600 605  
140 Ser Leu Ser Gly Arg Ile Val Gly Gly Val Trp Trp Phe Phe Thr Leu  
141 610 615 620  
143 Ile Ile Ile Ser Ser Tyr Thr Ala Asn Leu Ala Ala Phe Leu Thr Val  
144 625 630 635 640  
146 Glu Arg Met Val Ser Pro Ile Glu Ser Ala Glu Asp Leu Ala Lys Gln

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147	645	650	655	
149	Thr Glu Ile Ala Tyr Gly Thr Leu Glu Ala Gly Ser Thr Lys Glu Phe			
150	660	665	670	
152	Phe Arg Arg Ser Lys Ile Ala Val Phe Glu Lys Met Trp Thr Tyr Met			
153	675	680	685	
155	Lys Ser Ala Glu Pro Ser Val Phe Val Arg Thr Thr Glu Glu Gly Met			
156	690	695	700	
158	Ile Arg Val Arg Lys Ser Lys Gly Lys Tyr Ala Tyr Leu Leu Glu Ser			
159	705	710	715	720
161	Thr Met Asn Glu Tyr Ile Glu Gln Arg Lys Pro Cys Asp Thr Met Lys			
162	725	730	735	
164	Val Gly Gly Asn Leu Asp Ser Lys Gly Tyr Gly Ile Ala Thr Pro Lys			
165	740	745	750	
167	Gly Ser Ala Leu Arg Asn Pro Val Asn Leu Ala Val Leu Lys Leu Asn			
168	755	760	765	
170	Glu Gln Gly Leu Leu Asp Lys Leu Lys Asn Lys Trp Trp Tyr Asp Lys			
171	770	775	780	
173	Gly Glu Cys Gly Ser Gly Gly Asp Ser Lys Asp Lys Thr Ser Ala			
174	785	790	795	800
176	Leu Ser Leu Ser Asn Val Ala Gly Val Phe Tyr Ile Leu Ile Gly Gly			
177	805	810	815	
179	Leu Gly Leu Ala Met Leu Val Ala Leu Ile Glu Phe Cys Tyr Lys Ser			
180	820	825	830	
182	Arg Ser Glu Ser Lys Arg Met Lys Gly Phe Cys Leu Ile Pro Gln Gln			
183	835	840	845	
185	Ser Ile Asn Glu Ala Ile Arg Thr Ser Thr Leu Pro Arg Asn Ser Gly			
186	850	855	860	
188	Ala Gly Ala Ser Gly Gly Ser Gly Glu Asn Gly Arg Val Val			
189	865	870	875	880
191	Ser Gln Asp Phe Pro Lys Ser Met Gln Ser Ile Pro Cys Met Ser His			
192	885	890	895	
194	Ser Ser Gly Met Pro Leu Gly Ala Thr Gly Leu			
195	900	905		
199	<210> SEQ ID NO: 2			
200	<211> LENGTH: 883			
201	<212> TYPE: PRT			
202	<213> ORGANISM: Rattus norvegicus			
204	<400> SEQUENCE: 2			
205	Met Gln Lys Ile Met His Ile Ser Val Leu Leu Ser Pro Val Leu Trp			
206	1	5	10	15
208	Gly Leu Ile Phe Gly Val Ser Ser Asn Ser Ile Gln Ile Gly Gly Leu			
209	20	25	30	
211	Phe Pro Arg Gly Ala Asp Gln Glu Tyr Ser Ala Phe Arg Val Gly Met			
212	35	40	45	
214	Val Gln Phe Ser Thr Ser Glu Phe Arg Leu Thr Pro His Ile Asp Asn			
215	50	55	60	
217	Leu Glu Val Ala Asn Ser Phe Ala Val Thr Asn Ala Phe Cys Ser Gln			
218	65	70	75	80
220	Phe Ser Arg Gly Val Tyr Ala Ile Phe Gly Phe Tyr Asp Lys Ser			

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221	85	90	95
223	Val Asn Thr Ile Thr Ser Phe Cys Gly Thr Leu His Val Ser Phe Ile		
224	100	105	110
226	Thr Pro Ser Phe Pro Thr Asp Gly Thr His Pro Phe Val Ile Gln Met		
227	115	120	125
229	Arg Pro Asp Leu Lys Gly Ala Leu Leu Ser Leu Ile Glu Tyr Tyr Gln		
230	130	135	140
232	Trp Asp Lys Phe Ala Tyr Leu Tyr Asp Ser Asp Arg Gly Leu Ser Thr		
233	145	150	155
235	Leu Gln Ala Val Leu Asp Ser Ala Ala Glu Lys Lys Trp Gln Val Thr		
236	165	170	175
238	Ala Ile Asn Val Gly Asn Ile Asn Asn Asp Lys Lys Asp Glu Thr Tyr		
239	180	185	190
241	Arg Ser Leu Phe Gln Asp Leu Glu Leu Lys Lys Glu Arg Arg Val Ile		
242	195	200	205
244	Leu Asp Cys Glu Arg Asp Lys Val Asn Asp Ile Val Asp Gln Val Ile		
245	210	215	220
247	Thr Ile Gly Lys His Val Lys Gly Tyr His Tyr Ile Ile Ala Asn Leu		
248	225	230	235
250	Gly Phe Thr Asp Gly Asp Leu Leu Lys Ile Gln Phe Gly Gly Ala Asn		
251	245	250	255
253	Val Ser Gly Phe Gln Ile Val Asp Tyr Asp Asp Ser Leu Val Ser Lys		
254	260	265	270
256	Phe Ile Glu Arg Trp Ser Thr Leu Glu Glu Lys Glu Tyr Pro Gly Ala		
257	275	280	285
259	His Thr Ala Thr Ile Lys Tyr Thr Ser Ala Leu Thr Tyr Asp Ala Val		
260	290	295	300
262	Gln Val Met Thr Glu Ala Phe Arg Asn Leu Arg Lys Gln Arg Ile Glu		
263	305	310	315
265	Ile Ser Arg Arg Gly Asn Ala Gly Asp Cys Leu Ala Asn Pro Ala Val		
266	325	330	335
268	Pro Trp Gly Gln Gly Val Glu Ile Glu Arg Ala Leu Lys Gln Val Gln		
269	340	345	350
271	Val Glu Gly Leu Ser Gly Asn Ile Lys Phe Asp Gln Asn Gly Lys Arg		
272	355	360	365
274	Ile Asn Tyr Thr Ile Asn Ile Met Glu Leu Lys Thr Asn Gly Pro Arg		
275	370	375	380
277	Lys Ile Gly Tyr Trp Ser Glu Val Asp Lys Met Val Val Thr Leu Thr		
278	385	390	395
280	Glu Leu Pro Ser Gly Asn Asp Thr Ser Gly Leu Glu Asn Lys Thr Val		
281	405	410	415
283	Val Val Thr Thr Ile Leu Glu Ser Pro Tyr Val Met Met Lys Lys Asn		
284	420	425	430
286	His Glu Met Leu Glu Gly Asn Glu Arg Tyr Glu Gly Tyr Cys Val Asp		
287	435	440	445
289	Leu Ala Ala Glu Ile Ala Lys His Cys Gly Phe Lys Tyr Lys Leu Thr		
290	450	455	460
292	Ile Val Gly Asp Gly Lys Tyr Gly Ala Arg Asp Ala Asp Thr Lys Ile		
293	465	470	475
			480

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295 Trp Asn Gly Met Val Gly Glu Leu Val Tyr Gly Lys Ala Asp Ile Ala  
 296 485 490 495  
 298 Ile Ala Pro Leu Thr Ile Thr Leu Val Arg Glu Glu Val Ile Asp Phe  
 299 500 505 510  
 301 Ser Lys Pro Phe Met Ser Leu Gly Ile Ser Ile Met Ile Lys Lys Pro  
 302 515 520 525  
 304 Gln Lys Ser Lys Pro Gly Val Phe Ser Phe Leu Asp Pro Leu Ala Tyr  
 305 530 535 540  
 307 Glu Ile Trp Met Cys Ile Val Phe Ala Tyr Ile Gly Val Ser Val Val  
 308 545 550 555 560  
 310 Leu Phe Leu Val Ser Arg Phe Ser Pro Tyr Glu Trp His Thr Glu Glu  
 311 565 570 575  
 313 Phe Glu Asp Gly Arg Glu Thr Gln Ser Ser Glu Ser Thr Asn Glu Phe  
 314 580 585 590  
 316 Gly Ile Phe Asn Ser Leu Trp Phe Ser Leu Gly Ala Phe Met Arg Gln  
 317 595 600 605  
 319 Gly Cys Asp Ile Ser Pro Arg Ser Leu Ser Gly Arg Ile Val Gly Gly  
 320 610 615 620  
 322 Val Trp Trp Phe Phe Thr Leu Ile Ile Ser Ser Tyr Thr Ala Asn  
 323 625 630 635 640  
 325 Leu Ala Ala Phe Leu Thr Val Glu Arg Met Val Ser Pro Ile Glu Ser  
 326 645 650 655  
 328 Ala Glu Asp Leu Ser Lys Gln Thr Glu Ile Ala Tyr Gly Thr Leu Asp  
 329 660 665 670  
 331 Ser Gly Ser Thr Lys Glu Phe Phe Arg Arg Ser Lys Ile Ala Val Phe  
 332 675 680 685  
 334 Asp Lys Met Trp Thr Tyr Met Arg Ser Ala Glu Pro Ser Val Phe Val  
 335 690 695 700  
 337 Arg Thr Thr Ala Glu Gly Val Ala Arg Val Arg Lys Ser Lys Gly Lys  
 338 705 710 715 720  
 340 Tyr Ala Tyr Leu Leu Glu Ser Thr Met Asn Glu Tyr Ile Glu Gln Arg  
 341 725 730 735  
 343 Lys Pro Cys Asp Thr Met Lys Val Gly Gly Asn Leu Asp Ser Lys Gly  
 344 740 745 750  
 346 Tyr Gly Ile Ala Thr Pro Lys Gly Ser Ser Leu Gly Asn Ala Val Asn  
 347 755 760 765  
 349 Leu Ala Val Leu Lys Leu Asn Glu Gln Gly Leu Leu Asp Lys Leu Lys  
 350 770 775 780  
 352 Asn Lys Trp Trp Tyr Asp Lys Gly Glu Cys Gly Ser Gly Gly Asp  
 353 785 790 795 800  
 355 Ser Lys Glu Lys Thr Ser Ala Leu Ser Leu Ser Asn Val Ala Gly Val  
 356 805 810 815  
 358 Phe Tyr Ile Leu Val Gly Gly Leu Gly Leu Ala Met Leu Val Ala Leu  
 359 820 825 830  
 361 Ile Glu Phe Cys Tyr Lys Ser Arg Ala Glu Ala Lys Arg Met Lys Val  
 362 835 840 845  
 364 Ala Lys Asn Pro Gln Asn Ile Asn Pro Ser Ser Ser Gln Asn Ser Gln  
 365 850 855 860  
 367 Asn Phe Ala Thr Tyr Lys Glu Gly Tyr Asn Val Tyr Gly Ile Glu Ser

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/807,499

DATE: 05/11/2001  
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Input Set : A:\Cpg.pto  
Output Set: N:\CRF3\05112001\I807499.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:1858 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:1917 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:1975 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:2033 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:2091 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:2151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:2210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:2268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:2326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:2386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20